Schreiber, David

781[redacted]

Fr m: Steadman, David (AU1652)
Sent: Thursday, October 17, 2002 12:57 PM
To: Schreiber, David
Subject: 09/583,310 sequence search request

NAME: David Steadman
AU: 1652
Date:10/17/02
Office: 10D-04
Mailbox: 10D-01
Case Serial #: 09/583,310

Please search the following sequences in commercial and interference databases:

1) Standard search of SEQ ID NO:6 (polypeptide sequence) against **nucleic acid** databases.

2) Standard search of SEQ ID NO:8 (polypeptide sequence) against **nucleic acid** databases.

Please save search results to diskette.

Thank you very much.

David J. Steadman
Art Unit 1652
Crystal Mall 1 Room 10D-04
703-308-3934

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Db   1141 ACAGTTGACCTCCAGTCCCGCTGGGCAGCACAAGTAATAAAGGGAACTTGTACTTTGCCT 1200

Qy    401 SerMetGluAspMetMetAsnAspIleAsnGluLysMetGluLysLysArgLysTrpPhe 420
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Db   1201 TCTATGGAAGACATGATGAATGATATTAATGAGAAAATGGAGAAAAAGCGCAAATGGTTT 1260

Qy    421 GlyLysSerGluThrIleGlnThrAspTyrIleValTyrMetAspGluLeuSerSerPhe 440
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Db   1261 GGCAAAAGCGAGACCATACAGACAGATTACATTGTTTATATGGATGAACTCTCCTCCTTC 1320

Qy    441 IleGlyAlaLysProAsnIleProTrpLeuPheLeuThrAspProLysLeuAlaMetGlu 460
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Db   1321 ATTGGGGCAAAGCCCAACATCCCATGGCTGTTTCTCACAGATCCCAAATTGGCCATGGAA 1380

Qy    461 ValTyrPheGlyProCysSerProTyrGlnPheArgLeuValGlyProGlyGlnTrpPro 480
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Qy    481 GlyAlaArgAsnAlaIleLeuThrGlnTrpAspArgSerLeuLysProMetGlnThrArg 500
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Qy    501 ValValGlyArgLeuGlnLysProCysPhePhePheHisTrpLeuLysLeuPheAlaIle 520
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Qy    521 ProIleLeuLeuIleAlaValPheLeuValLeuThr 532
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SEQ ID NO: 6

AA → NA

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RESULT 2
HSFMO3
LOCUS       HSFMO3                  1913 bp    mRNA    linear   PRI 17-APR-1996
DEFINITION  H.sapiens mRNA for flavin-containing monooxygenase 3 (FMO3).
ACCESSION   Z47552
VERSION     Z47552.1  GI:623239
KEYWORDS    flavin-containing monooxygenase 3.
SOURCE      human.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 1913)
  AUTHORS   Dolphin,C.T., Cullingford,T.E., Shephard,E.A., Smith,R.L. and
            Phillips,I.R.
  TITLE     Differential developmental and tissue-specific regulation of
            expression of the genes encoding three members of the
            flavin-containing monooxygenase family of man, FMO1, FMO3 and FM04
  JOURNAL   Eur. J. Biochem. 235 (3), 683-689 (1996)
  MEDLINE   96184548
REFERENCE   2  (bases 1 to 1913)
  AUTHORS   Dolphin,C.T.
  TITLE     Direct Submission
  JOURNAL   Submitted (12-JAN-1995) Colin T Dolphin, Biochemistry, Queen Mary
            and Westfield College, University of London, Mile End Road, London,
            E1 4NS, UK
FEATURES             Location/Qualifiers
     source          1. .1913
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     mRNA            1. .1913
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                     PGLNHFKGKCFHSRDYKEPGVFNGKRVLVVGLGNSGCDIATELSRTAEQVMISSRSGS
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                     CFFFHWLKLFAIPILLIAVFLVLT"
     3'UTR           1693. .>1913
BASE COUNT      535 a    414 c    445 g    519 t
ORIGIN

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Score:                  2830.00         Matches:        530
Percent Similarity:     100.00%         Conservative:   2
Best Local Similarity:  99.62%          Mismatches:     0
Query Match:            99.75%          Indels:         0
DB:                     9               Gaps:           0

US-09-583-310-6 (1-532) x HSFMO3 (1-1913)

Qy       1 MetGlyLysLysValAlaIleIleGlyAlaGlyValSerGlyLeuAlaSerIleArgSer 20
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      94 ATGGGGAAGAAAGTGGCCATCATTGGAGCTGGTGTGAGTGGCTTGGCCTCCATCAGGAGC 153

Qy      21 CysLeuGluGluGlyLeuGluProThrCysPheGluLysSerAsnAspIleGlyGlyLeu 40
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     154 TGTCTGGAAGAGGGGCTGGAGCCCACCTGCTTTGAGAAGAGCAATGACATTGGGGGCCTG 213

Qy      41 TrpLysPheSerAspHisAlaGluGluGlyArgAlaSerIleTyrLysSerValPheSer 60
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Qy      61 AsnSerSerLysGluMetMetCysPheProAspPheProPheProAspAspPheProAsn 80
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Db     274 AACTCTTCCAAAGAGATGATGTGTTTCCCAGACTTCCCATTTCCCGATGACTTCCCCAAC 333

Qy      81 PheMetHisAsnSerLysIleGlnGluTyrIleIleAlaPheAlaLysGluLysAsnLeu 100
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Db     334 TTTATGCACAACAGCAAGATCCAGGAATATATCATTGCATTTGCCAAAGAAAAGAACCTC 393

Qy     101 LeuLysTyrIleGlnPheLysThrPheValSerSerValAsnLysHisProAspPheAla 120
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Db     394 CTGAAGTACATACAATTTAAGACATTTGTATCCAGTGTAAATAAACATCCTGATTTTGCA 453

Qy     121 ThrThrGlyGlnTrpAspValThrThrGluArgAspGlyLysLysGluSerAlaValPhe 140
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     454 ACTACTGGCCAGTGGGATGTTACCACTGAAAGGGATGGTAAAAAAGAATCGGCTGTCTTT 513

Qy     141 AspAlaValMetValCysSerGlyHisHisValTyrProAsnLeuProLysLysSerPhe 160
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Db     514 GATGCTGTAATGGTTTGTTCCGGACATCATGTGTATCCCAACCTACCAAAAGAGTCCTTT 573

Qy     161 ProGlyLeuAsnHisPheLysGlyLysCysPheHisSerArgAspTyrLysGluProGly 180
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Db     574 CCAGGACTAAACCACTTTAAAGGCAAATGCTTCCACAGCAGGGACTATAAAGAACCAGGT 633

Qy     181 ValPheAsnGlyLysArgValLeuValValGlyLeuGlyAsnSerGlyCysAspIleAla 200
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Db     634 GTATTCAATGGAAAGCGTGTCCTGGTGGTTGGCCTGGGGAATTCGGGCTGTGATATTGCC 693

Qy     201 ThrGluLeuSerArgThrAlaGluGlnValMetIleSerSerArgSerGlySerTrpVal 220
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Db     694 ACAGAACTCAGCCGCACAGCAGAACAGGTCATGATCAGTTCCAGAAGTGGCTCCTGGGTG 753

Qy     221 MetSerArgValTrpAspAsnGlyTyrProTrpAspMetLeuLeuValThrArgPheGly 240
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Db     754 ATGAGCCGGGTCTGGGACAATGGTTATCCTTGGGACATGCTGCTCGTCACTCGATTCGGA 813
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Qy    241 ThrPheLeuLysAsnAsnLeuProThrAlaIleSerAspTrpLeuTyrValLysGlnMet 260
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Qy    261 AsnAlaArgPheLysHisGluAsnTyrGlyLeuMetProLeuAsnGlyValLeuArgLys 280
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Qy    281 GluProValPheAsnAspGluLeuProAlaSerIleLeuCysGlyIleValSerValLys 300
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Qy    301 ProAsnValLysGluPheThrGluThrSerAlaIlePheGluAspGlyThrIlePheGlu 320
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Qy    361 LeuGluLysSerThrIleAlaValIleGlyPheValGlnSerLeuGlyAlaAlaIlePro 380
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Qy    401 SerMetGluAspMetMetAsnAspIleAsnGluLysMetGluLysLysArgLysTrpPhe 420
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Qy    421 GlyLysSerGluThrIleGlnThrAspTyrIleValTyrMetAspGluLeuSerSerPhe 440
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Qy    481 GlyAlaArgAsnAlaIleLeuThrGlnTrpAspArgSerLeuLysProMetGlnThrArg 500
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Qy    501 ValValGlyArgLeuGlnLysProCysPhePhePheHisTrpLeuLysLeuPheAlaIle 520
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AA -> NA

SEQ ID NO:8
HSFMO3

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LOCUS       HSFMO3                  1913 bp    mRNA    linear   PRI 17-APR-1996
DEFINITION  H.sapiens mRNA for flavin-containing monooxygenase 3 (FMO3).
ACCESSION   Z47552
VERSION     Z47552.1  GI:623239
KEYWORDS    flavin-containing monooxygenase 3.
SOURCE      human.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 1913)
  AUTHORS   Dolphin,C.T., Cullingford,T.E., Shephard,E.A., Smith,R.L. and
            Phillips,I.R.
  TITLE     Differential developmental and tissue-specific regulation of
            expression of the genes encoding three members of the
            flavin-containing monooxygenase family of man, FMO1, FMO3 and FM04
  JOURNAL   Eur. J. Biochem. 235 (3), 683-689 (1996)
  MEDLINE   96184548
REFERENCE   2  (bases 1 to 1913)
  AUTHORS   Dolphin,C.T.
  TITLE     Direct Submission
  JOURNAL   Submitted (12-JAN-1995) Colin T Dolphin, Biochemistry, Queen Mary
            and Westfield College, University of London, Mile End Road, London,
            E1 4NS, UK
FEATURES             Location/Qualifiers
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ORIGIN
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Best Local Similarity:	99.81%	Mismatches:	0
Query Match:	99.89%	Indels:	0
DB:	9	Gaps:	0

US-09-583-310-8 (1-532) x HSFMO3 (1-1913)

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Qy    121 ThrThrGlyGlnTrpAspValThrThrGluArgAspGlyLysLysGluSerAlaValPhe 140
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Db    454 ACTACTGGCCAGTGGGATGTTACCACTGAAAGGGATGGTAAAAAAGAATCGGCTGTCTTT 513

Qy    141 AspAlaValMetValCysSerGlyHisHisValTyrProAsnLeuProLysGluSerPhe 160
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Db    574 CCAGGACTAAACCACTTTAAAGGCAAATGCTTCCACAGCAGGGACTATAAAGAACCAGGT 633

Qy    181 ValPheAsnGlyLysArgValLeuValValGlyLeuGlyAsnSerGlyCysAspIleAla 200
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Db    634 GTATTCAATGGAAAGCGTGTCCTGGTGGTTGGCCTGGGGAATTCGGGCTGTGATATTGCC 693

Qy    201 ThrGluLeuSerArgThrAlaGluGlnValMetIleSerSerArgSerGlySerTrpVal 220
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    694 ACAGAACTCAGCCGCACAGCAGAACAGGTCATGATCAGTTCCAGAAGTGGCTCCTGGGTG 753

Qy    221 MetSerArgValTrpAspAsnGlyTyrProTrpAspMetLeuLeuValThrArgPheGly 240
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Db    754 ATGAGCCGGGTCTGGGACAATGGTTATCCTTGGGACATGCTGCTCGTCACTCGATTCGGA 813

Qy    241 ThrPheLeuLysAsnAsnLeuProThrAlaIleSerAspTrpLeuTyrValLysGlnMet 260
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Qy    261 AsnAlaArgPheLysHisGluAsnTyrGlyLeuMetProLeuAsnGlyValLeuArgLys 280
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Db    934 GAGCCTGTATTTAACGATGAGCTCCCAGCAAGCATTCTGTGTGGCATTGTGTCCGTAAAG 993

Qy    301 ProAsnValLysGluPheThrGluThrSerAlaIlePheGluAspGlyThrIlePheGlu 320
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy    321 GlyIleAspCysValIlePheAlaThrGlyTyrSerPheAlaTyrProPheLeuAspGlu 340
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Db   1054 GGCATTGACTGTGTAATCTTTGCAACAGGGTATAGTTTTGCCTACCCCTTCCTTGATGAG 1113

Qy    341 SerIleIleLysSerArgAsnAsnGluIleIleLeuPheLysGlyValPheProProLeu 360
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1114 TCTATCATCAAAAGCAGAAACAATGAGATCATTTTATTTAAAGGAGTATTTCCTCCTCTA 1173

Qy    361 LeuGluLysSerThrIleAlaValIleGlyPheValGlnSerLeuGlyAlaAlaIlePro 380
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Qy    381 ThrValAspLeuGlnSerArgTrpAlaAlaGlnValIleLysGlyThrCysThrLeuPro 400
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Db   1234 ACAGTTGACCTCCAGTCCCGCTGGGCAGCACAAGTAATAAAGGGAACTTGTACTTTGCCT 1293

Qy    401 SerMetGluAspMetMetAsnAspIleAsnGluLysMetGluLysLysArgLysTrpPhe 420
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1294 TCTATGGAAGACATGATGAATGATATTAATGAGAAAATGGAGAAAAAGCGCAAATGGTTT 1353

Qy    421 GlyLysSerGluThrIleGlnThrAspTyrIleValTyrMetAspGluLeuSerSerPhe 440
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1354 GGCAAAAGCGAGACCATACAGACAGATTACATTGTTTATATGGATGAACTCTCCTCCTTC 1413

Qy    441 IleGlyAlaLysProAsnIleProTrpLeuPheLeuThrAspProLysLeuAlaMetGlu 460
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1414 ATTGGGGCAAAGCCCAACATCCCATGGCTGTTTCTCACAGATCCCAAATTGGCCATGGAA 1473

Qy    461 ValTyrPheGlyProCysSerProTyrGlnPheArgLeuValGlyProGlyGlnTrpPro 480
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1474 GTTTATTTTGGCCCTTGTAGTCCCTACCAGTTTAGGCTGGTGGGCCCAGGGCAGTGGCCA 1533

Qy    481 GlyAlaArgAsnAlaIleLeuThrGlnTrpAspArgSerLeuLysProMetGlnThrArg 500
          ||||||||||||||:::||||||||||||||||||||||||||||||||||||||||||||
Db   1534 GGAGCCAGAAATGCCATGCTGACCCAGTGGGACCGGTCGTTGAAACCCATGCAGACACGA 1593

Qy    501 ValValGlyArgLeuGlnLysProCysPhePhePheHisTrpLeuLysLeuPheAlaIle 520
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1594 GTGGTCGGGAGACTTCAGAAGCCTTGCTTCTTTTTCCATTGGCTGAAGCTCTTTGCAATT 1653

Qy    521 ProIleLeuLeuIleAlaValPheLeuValLeuThr 532
          ||||||||||||||||||||||||||||||||||||
Db   1654 CCTATTCTGTTAATCGCTGTTTTCCTTGTGTTGACC 1689
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